Current Pending Claims

1. (Previously presented) A method to promote wound healing in a patient, comprising:

administering a nucleic acid encoding a growth factor operably linked to a promoter to wounded tissue of a patient at a wound site; and applying an electric field intradermally to the wounded tissue at the wound site in an amount sufficient to increase transfection of the nucleic acid encoding the growth factor.

- 2. (Original) The method of claim 1 wherein the electric field is applied in pulses.
- 3. (Previously Presented) The method of claim 2 wherein 6 to 18 pulses are applied to the wound site.
- 4. (Previously Presented) The method of claim 2 wherein the pulse is from 100 microseconds to 20 milliseconds in duration.
- 5. (Previously Presented) The method of claim 1 wherein the electric field is from 400 to 1800 V/cm.
- 6. (Original) The method of claim 2 wherein the pulse is a square wave pulse.
- 7. (Original) The method of claim 1 wherein the wound is cutaneous.
- 8. (Withdrawn) The method of claim 1 wherein the wound is muscular.
- 9. (Withdrawn) The method of claim 1 wherein the wound is an osseus lesion.
- 10. (Withdrawn) The method of claim 1 wherein the wound is a gastrointestinal anastamosis.
- 11. (Withdrawn) The method of claim 1 wherein the growth factor is Keratinocyte Growth Factor-1 (KGF-1).
- 12. (Withdrawn) The method of claim 1 wherein the growth factor is Platelet Derived Growth Factor (PDGF).
- 13. (Withdrawn) The method of claim 1 wherein the growth factor is vascular epidermal growth factor (VEGF).

- 14. (Original) The method of claim 1 wherein the growth factor is hypoxia induced factor $1-\alpha$ (HIF $1-\alpha$).
- 15. (Original) The method of claim 1 wherein the wound is a burn wound.
- 16. (Withdrawn) The method of claim 1 wherein the electric field is applied via an endoscope.
- 17. (Original) The method of claim 1 wherein the wound is a decubitus ulcer.
- 18. (Original) The method of claim 1 wherein one or more nucleic acids encoding at least two growth factors is administered.
- 19. (Original) The method of claim 1 wherein the nucleic acid is a plasmid.
- 20. (Original) The method of claim 1 wherein the patient is diabetic.
- 21. (Original) The method of claim 1 wherein the wound eschar is removed surgically prior to administering the nucleic acid.
- 22. (Previously Presented) A method to promote wound healing in a patient, comprising:

administering a nucleic acid encoding a HIF 1-α operably linked to a promoter to wounded tissue of a patient at a wound site; and applying between 6 and 18 pulses of between 400 and 1800 V/cm and between 100 microseconds to 20 milliseconds intradermally to the wounded tissue at the wound site, whereby wound healing is stimulated.

- 23. (Original) The method of claim 22 wherein the wound eschar is removed surgically prior to administering the nucleic acid.
- 24. (Previously presented) The method of claim 22 wherein the nucleic acid is a plasmid.

- 25. (Withdrawn) A kit for treating wounds, comprising:a nucleic acid encoding a growth factor; andone or more electrodes for applying an electric field to a wound.
- 26. (Withdrawn) The kit of claim 25 wherein the electrode is disposable.
- 27. (Withdrawn) The kit of claim 25 wherein the electrode is sterile.
- 28. (Withdrawn) The kit of claim 25 wherein the electrode is needle-shaped.
- 29. (Withdrawn) The kit of claim 25 wherein the electrode is paddle-shaped.
- 30. (Withdrawn) The kit of claim 25 wherein the electrode is disk-shaped.
- 31. (Withdrawn) The kit of claim 25 wherein the electrode is stainless steel.
- 32. (Withdrawn) The kit of claim 25 wherein the electrode is gold-coated.
- 33. (Withdrawn) The kit of claim 25 wherein the electrode is gold-plated.
- 34. (Withdrawn) The kit of claim 25 wherein the electrode is gold-tipped.
- 35. (Withdrawn) The kit of claim 25 wherein the electrode is brass.
- 36. (Withdrawn) The kit of claim 25 wherein the electrode is coated with the nucleic acid.
- 37. (Withdrawn) The kit of claim 26 further comprising a re-usable handle for receiving the one or more electrodes.
- 38. (Withdrawn) The kit of claim 25 wherein the nucleic acid is in a container separate from the one or more electrodes.
- 39. (Withdrawn) The kit of claim 25 further comprising an electoporator configured to generate an electric field.
- 40. (Withdrawn) The kit of claim 25 further comprising an electroporator configured to generate an electric pulse.
- 41. (Previously presented) The method of claim 1 wherein pin electrodes are used to apply the electric field.
- 42. (Previously Presented) The method of claim 1 wherein the electric field is applied intradermally at the wound's border.
- 43. (Previously presented) The method of claim 1 wherein pin electrodes are used to apply the electric field to the wound's edges.
- 44. (Previously presented) The method of claim 1 wherein the nucleic acid is a plasmid and the step of administering employs intradermal injection.